### FALL SEMESTER (17 credits) | SPRING SEMESTER (16 credits)
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**General Education and Major Coursework:** | **General Education and Major Coursework:**
MATH 211 (4 credits) | MTH 173 or 273*  
**VCCS Equivalency:** | **VCCS Equivalency:**
ENG 110C | Human Creativity  
**Transfer Guide:**
Language and Culture I | Language and Culture II  
(May be waived, see catalog for details) | (May be waived, see catalog for details)  
**Transfer Guide:**
CS 150 (4 credits) | MATH 212 (4 credits)
Oral Communication | MTH 174 or 274*  
**Transfer Guide:**
**YEAR 1 - FRESHMAN (33 CREDITS)**

### FALL SEMESTER (17 credits) | SPRING SEMESTER (16 credits)
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**General Education and Major Coursework:** | **General Education and Major Coursework:**
CHEM 121N and 122N (4 credits) | CHM 111*  
**VCCS Equivalency:** | **VCCS Equivalency:**
CHEM 123N and 124N (4 credits) | CHM 112*  
**Transfer Guide:**
Literature | Interpreting the Past  
**Transfer Guide:**
Philosophy and Ethics | PHYS 232N (4 credits)
**Transfer Guide:** | PHYS 222, 232 or 242*
PHYS 231N (4 credits) | Impact of Technology  
**Transfer Guide:**
Information Literacy and Research: CS 120G or CS 121G | Transfer Guide

### YEAR 2 - SOPHOMORE (31 CREDITS)

### FALL SEMESTER (17 credits) | SPRING SEMESTER (16 credits)
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**Major Coursework:** | **Major Coursework:**
MATH 312 or 285 (4 credits) | MTH 277*  
**VCCS Equivalency:** | **VCCS Equivalency:**
MATH 316, 401, 421 or 422 | MTH 279*  
**Transfer Guide:**
PHYS 303 | PHYS 319  
**Transfer Guide:** | PHYS 413
PHYS 319 | PHYS 454  
**Transfer Guide:** | PHYS 452
PHYS 323 |  
**Transfer Guide:**
**YEAR 3 - JUNIOR (31 CREDITS)**

### FALL SEMESTER (16 credits) | SPRING SEMESTER (15 credits)
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**Major Coursework:** | **Major Coursework:**
MATH 307 or 280 | MTH 277*  
**VCCS Equivalency:** | **VCCS Equivalency:**
MATH 316, 401, 421 or 422 | MTH 279*  
**Transfer Guide:**
PHYS 313, 332, 411, 415, 416 or 417** (6credits)  
**Elective***  
**Upper Division Gen. Ed. Coursework:**
Select two of the following: PHYS 311, 313, 332, 411, 415, 416 or 417** (6credits)  
**300-/400-level course (Option D)**
**Note:** Upper division general education (minor) has other options, see catalog for requirements.

Concentration B (Professional) is designed for students who wish to create a specialized program of study which combines a strong foundation in physics with strong preparation in another field. Such other fields include engineering, medicine, computer science, business, and communications, to name a few.

Requirements for graduation include a minimum cumulative grade point average of 2.00 overall and in the major, a grade of C or better in all courses required for the major, including prerequisite courses, 120 credit hours, which must include both a minimum of 30 credit hours overall and 12 credit hours in upper-level courses in the major program from Old Dominion University, completion of ENGL 110C, ENGL 211C or 221C or 231C, and a writing intensive (W) course in the major with a grade of C or better, and completion of Senior Assessment.